

15

structure surfaces considering difference of color or difference of material between the structure surfaces.

13. The apparatus according to claim 1, wherein the input information is information from a scanner, information from a camera or information from an input device. 5

14. The apparatus according to claim 1, wherein the input information is information on a physical structure of the theater and obtained from a scanner scanning the physical structure of the theater using laser, X-ray, white light or infrared light. 10

15. A theater parameter management method comprising the steps of:

- (a) receiving information related to a structure of a theater by a theater parameter management apparatus; 15
- (b) creating parameters showing the structure of the theater based on the input information by the theater parameter management apparatus;
- (c) storing the created parameters by the theater parameter management apparatus; and 20
- (d) performing a data processing using the stored parameters by the theater parameter management apparatus.

16. The apparatus according to claim 3, wherein the plurality of projection surfaces includes a main screen and structure surfaces. 25

17. A theater parameter management apparatus, comprising:

- a parameter creation unit for creating parameters showing a structure of a theater based on input information;
- a database for storing the parameters created by the parameter creation unit; and

16

a data processing unit for performing a data processing using the parameters stored in the database, wherein the parameter creation unit creates

parameters showing a size of the theater, wherein the parameters showing the size of the theater include a parameter showing a width of the theater, a parameter showing a height of the theater, and a parameter showing a depth of the theater,

parameters showing arrangement of a main screen, wherein the parameters showing the arrangement of the main screen include a parameter showing a ratio of the main screen, a parameter showing a screen top offset of the main screen, a parameter showing a screen left offset of the main screen, and a parameter showing a screen right offset of the main screen,

parameters showing arrangement of audience seats, wherein the parameters showing the arrangement of the audience seats include a parameter showing a front depth of the audience seats, a parameter showing a rear depth of the audience seats, and a parameter showing a rear height of the audience seats, or parameters showing arrangement of projectors, wherein the parameters showing the arrangement of the projectors include a parameter showing the number of projectors arranged in a first row, a parameter showing the number of projectors arranged in a second row, a parameter showing the number of projectors arranged in a third row, and a parameter showing the number of projectors arranged in a fourth row.

* * * * *